

CLAIMS

1. A communication apparatus which performs wireless communication with another communication device existing in the neighborhood, comprising:

transmission processing means for processing a transmission signal;

an antenna for wirelessly transmitting an output of said transmission processing means; and

output power regulation means for attenuating the output of said transmission processing means to be output from said antenna, when a search signal to search for another communication device is transmitted in a predetermined state from said transmission processing means.

2. The communication apparatus according to claim 1, wherein

said output power regulation means is formed of an attenuator selectively disposed between said transmission processing means and said antenna.

3. The communication apparatus according to claim 1, wherein

said output power regulation means is formed of a variable attenuator disposed between said transmission processing means and said antenna, and when the transmission is performed in said predetermined state, the amount of attenuation in said variable attenuator is set large.

4. The communication apparatus according to claim 1, wherein

said output power regulation means is formed of first and second antennas to which the output of said transmission processing means is selectively supplied;

sensitivity of said second antenna is made lower than that of said first antenna; and

when the transmission is performed in said predetermined state, the transmission is performed using said second antenna and in other cases the transmission is performed using said first antenna.

5. The communication apparatus according to claim 1, wherein

when the transmission output power is regulated by said output power regulation means, further a gain of the transmission amplifier provided in said transmission processing means is made lower.

6. The communication apparatus according to claim 1, wherein

said antenna is also connected to reception processing means for processing a reception signal, and with respect to a signal which is received by said antenna and which is supplied to the reception processing means, a level of the reception signal is restricted to be low by said output power regulation means and is supplied to said reception processing means.

7. The communication apparatus according to claim 1, wherein

said antenna is also connected to reception processing means for processing a reception signal, with respect to the signal which is received by said antenna and which is supplied to the reception processing means, the level of the reception signal is restricted to be low by said output power regulation means and is supplied to said reception processing means; and

further, when the level of the reception signal is restricted to be low by said output power regulation means, a gain of a reception amplifier provided in said reception processing means is made low.